This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

☐ BLACK BORDERS
☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
☐ FADED TEXT OR DRAWING
☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
☐ SKEWED/SLANTED IMAGES
COLOR OR BLACK AND WHITE PHOTOGRAPHS
☐ GRAY SCALE DOCUMENTS
☐ LINES OR MARKS ON ORIGINAL DOCUMENT
☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
OTHER.

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.





UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/986,727	11/09/2001	Chien- Ming Chen	0941-0364P-SP	5871
2292 75	90 09/03/2004		EXAMINER	
BIRCH STEWART KOLASCH & BIRCH			DU, THUAN N	
PO BOX 747	CH, VA 22040-0747		ART UNIT	PAPER NUMBER
TALLS CHOK	O11, VII 22010 0717		2116	
			DATE MAILED: 09/03/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

 \mathcal{N}

	Application No.	Applicant(s)	· S				
	09/986,727	CHEN ET AL.	4				
Office Action Summary	Examiner	Art Unit					
	Thuan N. Du	2116					
The MAILING DATE of this communication a	appears on the cover sheet w	ith the correspondence add	ress				
A SHORTENED STATUTORY PERIOD FOR REI THE MAILING DATE OF THIS COMMUNICATIO Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a If NO period for reply is specified above, the maximum statutory per Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. t.1.136(a). In no event, however, may a reply within the statutory minimum of thi iod will apply and will expire SIX (6) MOI tute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this com BANDONED (35 U.S.C. § 133).	nmunication.				
Status							
1) Responsive to communication(s) filed on 09	9 November 2001.						
,	his action is non-final.						
•	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice unde	er Ex parte Quayle, 1935 C.L	J. 11, 453 O.G. 213.					
Disposition of Claims							
4) ☐ Claim(s) 1-7 is/are pending in the application 4a) Of the above claim(s) is/are without 5) ☐ Claim(s) 4-7 is/are allowed. 6) ☐ Claim(s) 1-3 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	drawn from consideration.						
Application Papers							
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to a Replacement drawing sheet(s) including the cor	accepted or b) objected to the drawing(s) be held in abeya rection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFF					
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTC	<i>)</i> -152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bur * See the attached detailed Office action for a	ents have been received. ents have been received in a priority documents have been reau (PCT Rule 17.2(a)).	Application No n received in this National S	Stage				
Attachment(s)							
1) Notice of References Cited (PTO-892)		Summary (PTO-413) (s)/Mail Date					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB. Paper No(s)/Mail Date 		Informal Patent Application (PTO-	152)				

Art Unit: 2116

DETAILED ACTION

1. Claims 1-7 are presented for examination.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential step, such omission amounting to a gap between the step. See MPEP § 2172.01. The omitted step is: coupling the first source clock to another clock input terminal of the second circuit block within the circuit blocks. Without the above mentioned step, the second circuit block has not received the first source clock, therefore, it is not clear how the second circuit block could be operated in accordance with the first source clock when switched.
- 5. Claims 2-3 are also rejected for incorporating the above deficiency by dependency.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Art Unit: 2116

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- 7. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Nagae (U.S. Patent No. 5,774,699).
- 8. Regarding claim 1, Nagae teaches a method for reducing clock skew in an integrated circuit having a plurality of circuit blocks (CPU 1, CPU Controller 29, DRAM Controller 31) [abstract], the method comprising:

providing a first source clock (CPCLK0, clock outputted from frequency divider 25 to CPU) coupled to a clock input terminal first circuit block (CPU 1) within the circuit blocks [Fig. 6; col. 8, lines 50-51];

providing a second source clock (CPCLK1) coupled to a clock input terminal of second circuit block (either CPU Controller 29 or DRAM Controller 31) within the circuit blocks [Fig. 6; col. 10, lines 63-65; col. 11, lines 59-61]; and

switching the clock input terminal the second circuit block the first source clock [col. 12, lines 28-37] when the second circuit block is configured to operate in synchronization with the first circuit block, thereby operating the first and second circuit blocks in accordance with the same first source clock [col. 1, lines 48-52].

Regarding claim 2, Nagae further teaches:
 providing an operation mode signal (CPSTD0,1) [Fig. 6]; and

Art Unit: 2116

setting a first state to the operation mode signal (XTEST1 = 1), thereby operating second circuit block synchronization with the first circuit block [col. 12, lines 39-40; col. 13, lines 3-7].

10. Regarding claim 3, Nagae further teaches:

setting a second state to the operation mode signal (XTEST1 = 0), wherein the second circuit block operates asynchronously to the first circuit block when the operation mode signal is at the second state [col. 12, lines 38-39; col. 13, lines 3-7]; and

switching the clock input terminal the second circuit block to second source clock, thereby independently operating the first circuit block in accordance with the first source clock and the second circuit block in accordance with the second source clock [col. 12, lines 28-37].

Allowable Subject Matter

11. Claims 4-7 are allowed.

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuan N. Du whose telephone number is (703) 308-6292 (after 10/14/04, (571) 272-3673). The examiner can normally be reached on Monday-Friday: 9:00 AM - 5:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne H. Browne can be reached on (703) 308-1159 (after 10/14/04, (571) 272-3670).

Art Unit: 2116

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

The fax number for the organization is (703) 872-9306.

Thuan N. Du

September 2, 2004